Appendix I

Seasonal cycles from monthly and high frequency stations sampled in 2022.

Surface water (0-10 m): Monthly measurements (dots) during 2022 are shown in relation to average value for the period 1991-2020 (black line) and +/- 1 standard deviation (grey area). Missing black line and grey area indicates that there are too few data in the period 1991-2020 to calculate statistics.

Included parameters are salinity, temperature, dissolved inorganic phosphorus (DIP), dissolved inorganic nitrogen (DIN; sum of ammonium, nitrate and nitrite), dissolved silica, total nitrogen, total phosphorus, chlorophyll, pH, alkalinity, humic substances, dissolved oxygen and oxygen saturation. Dissolved oxygen (including hydrogen sulphide expressed as negative oxygen) is presented for the bottom water.

Data for salinity and temperature is primarily from sensors on the CTD. Data for oxygen is only from water samples.
STATION NB1 / B3 SURFACE WATER (0-10 m)

Temperature

Mean 1991-2020  St.Dev.  2022

Salinity

PO₄

DIN

SiO₃

Humic substances

Total Phosphorus

Total Nitrogen

pH

NBS-scale

O₂ depth ≥20 m

Year

mL/l
STATION GAVIK-1 SURFACE WATER (0-10 m)

Temperature

Salinity

O₂ saturation

Chlorophyll-a

PO₄

DIN

SiO₃

Humic substances

Total Phosphorus

Total Nitrogen

pH

Alkalinity

O₂ depth ≥75 m

2022
STATION C3 SURFACE WATER (0-10 m)

Temperature
Salinity
O₂ saturation
Chlorophyll-a

PO₄
DIN
SiO₃
Humic substances

Total Phosphorus
Total Nitrogen
pH
Alkalinity

O₂ depth ≥184 m

Mean 1991-2020  St.Dev.  2022

μmol/l
μmol/l
μmol/l
μmol/l
μmol/l
μmol/l
μmol/l
mmol/kg
ml/l
ml/l
ml/l
ml/l
ml/l
ml/l
ml/l
ml/l
ml/l
ml/l
ml/l
ml/l
STATION B1 SURFACE WATER (0-10 m)

- Temperature
- Salinity
- PO₄
- DIN
- SiO₃
- Total Phosphorus
- Total Nitrogen
- Chlorophyll-a
- Alkalinity

Data ranges from 1991-2020, with a focus on 2022.
STATION FLADEN SURFACE WATER (0-10 m)

- **Temperature**
- **Salinity**
- **O₂ saturation**
- **PO₄**
- **DIN**
- **SiO₃**
- **Total Phosphorus**
- **Total Nitrogen**
- **Chlorophyll-a**

**O₂ depth ≥ 74 m**
STATION BY10 SURFACE WATER (0-10 m)

- **Temperature**
- **Salinity**
- **O₂ saturation**
- **Chlorophyll-a**
- **PO₄**
- **DIN**
- **SiO₃**
- **Total Phosphorus**
- **Total Nitrogen**
- **pH**
- **Alkalinity**

**O₂ depth ≥ 125 m**

**Year**

Mean 1991-2020
St.Dev.
2022
STATION BY31 LANDSORTSDJ SURFACE WATER (0-10 m)

- Temperature
- Salinity
- O₂ saturation
- Chlorophyll-a
- PO₄
- DIN
- SiO₃
- Humic substances
- Total Phosphorus
- Total Nitrogen
- pH
- Alkalinity
- O₂ depth ≥419 m

Mean 1991-2020, St.Dev., 2022
STATION BY32 NORRÖPINGSDJ SURFACE WATER (0-10 m)

Temperature

Mean 1991-2020
St.Dev.
2022

Salinity

O₂ saturation

Chlorophyll-a

PO₄

DIN

SiO₃

Total Phosphorus

Total Nitrogen

O₂ depth ≥175 m

O₂ depth ≥175 m
STATION BY38 KARLSÖDJ SURFACE WATER (0-10 m)

- Mean 1991-2020
- St.Dev.
- 2022

Temperature

Salinity

O₂ saturation

Chlorophyll-a

PO₄

DIN

SiO₃

Humic substances

Total Phosphorus

Total Nitrogen

O₂ depth ≥100 m

Year

mil/l